



US005961621A

United States Patent [19]
Wu et al.

[11] **Patent Number:** **5,961,621**
[45] **Date of Patent:** **Oct. 5, 1999**

[54] **MECHANISM FOR EFFICIENTLY
PROCESSING DEFERRED ORDER-
DEPENDENT MEMORY ACCESS
TRANSACTIONS IN A PIPELINED SYSTEM**

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[21] Appl. No.: **08/827,540**

[22] Filed: **Mar. 28, 1997**

[51] Int. Cl.⁶ **G06F 13/00**

[52] U.S. Cl. **710/107; 710/100; 711/140;
711/146; 711/169**

[58] Field of Search 395/292, 282,
395/309, 392, 395, 380, 381, 382; 711/140,
146, 141, 118, 169, 168

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[57] **ABSTRACT**

A bus agent defers an ordered transaction if the transaction cannot be completed in order. When an ordered transaction is deferred, its visibility for the next ordered transaction is asserted if it can guarantee a sequential order of the ordered transaction and the next ordered transaction. This visibility indication allows the bus agent to proceed with the next ordered transaction without waiting for the completion status of the deferred transaction. The visibility indication provides fast processing of ordered transactions.

9 Claims, 4 Drawing Sheets

